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600 MOUNTAIN AVENUE  
P.O. BOX 636  
MURRAY HILL, NJ 07974-0636

**UNITED STATES PATENT AND TRADEMARK OFFICE  
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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

**ASSIGNOR:**

AKULOVA, YULIYA ANNTOLYENVNA

DOC DATE: 03/29/2000

**ASSIGNOR:**

GEVA, MICHAEL

DOC DATE: 03/29/2000

**ASSIGNOR:**

GUGAZZADEN, ABDALLAH

DOC DATE: 03/29/2000

**ASSIGNEE:**

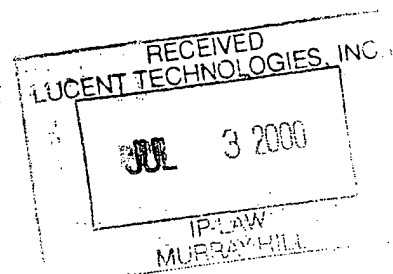
LUCENT TECHNOLOGIES, INC.  
600 MOUNTAIN AVENUE, P.O. BOX 636  
MURRAY HILL, NEW JERSEY 07974-0636

SERIAL NUMBER: 09540471

PATENT NUMBER:

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PATENT ONLY

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DEPARTMENT OF COMMERCE  
Patent and Trademark OfficeJC553 U.S. PTO  
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03/31/00

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof

1. Name of conveying party(ies): Yuliya Anatolyevna Akulova Michael Geva Abdallah Ougazzaden Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		2. Name and address of receiving party(ies): Name: <u>Lucent Technologies Inc.</u> Internal Address: _____ Street Address: <u>600 Mountain Avenue</u> <u>P. O. Box 636</u> City: State: ZIP: <u>Murray Hill, NJ 07974-0636</u> Additional name(s) & address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other			
Execution Date: <u>3/29/00</u>			
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: <u>3/31/00</u> A. Patent Application Number(s) _____ B. Patent Number(s) _____ Additional number(s) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Docket Administrator</u> Internal Address: <u>3C-512</u> Street Address: <u>600 Mountain Avenue</u> <u>P. O. Box 636</u> City: State: ZIP: <u>Murray Hill, NJ 07974-0636</u>		6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41): \$ <u>40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>12-2325</u> (Attach duplicate copy of this page if paying by deposit account.)	

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9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. <u>William S. Francos</u> Name of Person Signing		<u>William S. Francos</u> Signature		<u>3/31/00</u> Date	
Registration. No. 38,456					
Total number of pages including cover sheet, attachments, and document: <u>6</u>					
CASE: Y. A. Akulova 1-4-2 Do not detach this portion Mail documents to be recorded with required cover sheet information to: 04/26/2000 TTON11 00000182 122325 09540471 Commissioner of Patents and Trademarks 01 FC:581 40.00 CH Box Assignments Washington, D.C. 20231					

. 010725/0110 PAGE 2

JOANN STEWART, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

## ASSIGNMENT AND AGREEMENT


For value received, we, Yuliya Anatolyevna Akulova, of Allentown in the County of Lehigh and the State of Pennsylvania, and Michael Geva, of Allentown in the County of Lehigh and the State of Pennsylvania, and Abdallah Ougazzaden, of Emmaus in the County of Lehigh and the State of Pennsylvania, hereby sell, assign and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, Murray Hill, New Jersey, 07974-0636, U.S.A. and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **Dopant Diffusion Barrier Layer For Use In III(miV Structures** described in an application for Letters Patent of the United States, Serial No. 60/175010, filed January 7, 2000, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Lucent Technologies Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Lucent Technologies Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Lucent Technologies Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Lucent Technologies Inc. in the United States and in all countries foreign to the United States, or to such nominees as Lucent Technologies Inc. may designate.

We agree that, when requested, we shall, without charge to Lucent Technologies Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

  
\_\_\_\_\_  
Yuliya Anatolyevna Akulova

Date: 03/29/00

United States of America )

State of Pennsylvania ) ss.:

County of Lehigh )

On this 29<sup>th</sup> day of March, 20 00, before me personally came, Yuliya Anatolyevna Akulova to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
\_\_\_\_\_  
Notary Public

NOTARIAL SEAL  
DIANE L. HUGHES, Notary Public  
Breinigsville, Lehigh County  
My Commission Expires Jan. 6, 2003

Michael Geva  
Michael Geva

Date: 3/29/2000

United States of America )

State of Pennsylvania ) ss.:

County of Lehigh )

On this 29<sup>th</sup> day of March, 2000, before me personally came, Michael Geva to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Diane L Hughes  
Notary Public

NOTARIAL SEAL DIANE L. HUGHES, Notary Public Breinigsville, Lehigh County My Commission Expires Jan. 6, 2003
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Abdallah Ougazzaden

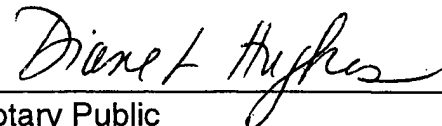
Date: 03/29/00

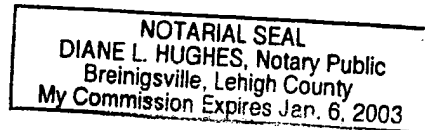
United States of America )

State of Pennsylvania ) ss.:

County of Lehigh )

On this 29<sup>th</sup> day of March, 20 00, before me personally came, Abdallah Ougazzaden to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
Notary Public



Lucent Technologies Inc.  
600 Mountain Avenue (Room 3C-512)  
P. O. Box 636  
Murray Hill, New Jersey 07974-0636